


MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

NFPA 	HMIS <table border="1"> <tr> <td style="background-color: #00BFFF;">HEALTH</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="background-color: #FF0000;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FFFF00;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">J</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	REACTIVITY	0	PERSONAL PROTECTION	J
HEALTH	2								
FLAMMABILITY	0								
REACTIVITY	0								
PERSONAL PROTECTION	J								

1. Product And Company Identification

Supplier Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Michael Doss - Dir. of Regulatory Affairs Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: mdoss@colonialmetals.com Web Site: www.colonialmetals.com	Manufacturer Colonial Metals, Inc. Building 20 505 Blue Ball Road Elkton, MD 21921 United States Company Contact: Michael Doss - Dir. of Regulatory Affairs Telephone Number: 410-398-7200 FAX Number: 410-398-2918 E-Mail: mdoss@colonialmetals.com Web Site: www.colonialmetals.com
--	--

Supplier Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887	Manufacturer Emergency Contacts & Phone Number Chemtrac: 800-424-9300 World Wide - Call COLLECT to U.S: 703-527-3887
---	---

Issue Date: 07/24/2012

Product Name: Silver (I) Sulfate
Chemical Name: Silver Sulfate
CAS Number: 10294-26-5
Chemical Family: Metal Halide
Chemical Formula: Ag₂O₄S
MSDS Number: 605563
Product Code: 9013

Synonyms
 Sulfuric Acid, disilver (1+) salt

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Silver (I) Sulfate	10294-26-5	98 - 100

EMERGENCY OVERVIEW

Irritant

MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

Hazards Identification (Pictograms)



3. Hazards Identification

Primary Routes(s) Of Entry

Eye: Likely
Inhalation: Likely
Skin: Likely
Ingestion: Likely

Eye Hazards

H319 - Causes serious eye irritation

Skin Hazards

H315 - Causes skin irritation
May be harmful if absorbed through the skin.

Ingestion Hazards

May be harmful if swallowed.

Inhalation Hazards

H335 - Causes respiratory tract irritation
May be harmful if inhaled.

Conditions Aggravated By Exposure

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver).

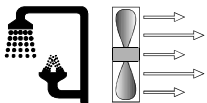
Conditions Aggravated By Overexposure

Prolonged or repeated inhalation, application or ingestion of silver compounds may cause a permanent bluish discoloration of the skin and mucous membranes.

GHS Classifications:

Skin Irritation - Category 2
Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 3
Acute Aquatic Toxicity - Category 1

First Aid (Pictograms)



MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

4. First Aid Measures

Eye

Flush for 15 minutes with plenty of water. If discomfort occurs or persists, contact a physician immediately.

Skin

Wash with soap and plenty of water. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

Wash out mouth with water provided victim is conscious. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Inhalation

Remove to fresh air immediately. If victim is not breathing perform artificial respiration. Contact a physician immediately.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: N/A °F N/A °C

Flash Point Method: N/A

Autoignition Point: N/A °F N/A °C

Flammability Class: NA

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Fire And Explosion Hazards

Use proper safety equipment. Can decompose to emit toxic fumes under fire conditions (Sulphur Oxides, Silver Oxides)

Extinguishing Media

Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

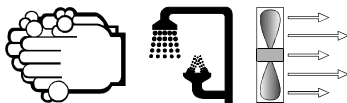
Fire Fighting Instructions

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Avoid dust formation. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or sweeping may be used to avoid dust dispersal.

Handling & Storage (Pictograms)



MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

7. Handling And Storage

Handling And Storage Precautions

Avoid contact with skin & eyes.
Avoid forming dust
Use only with adequate ventilation
Wash thoroughly after handling

Handling Precautions

Avoid contact with eyes and skin. Avoid the formation of dust and aerosols. Use with adequate ventilation.

Storage Precautions

Keep in a tightly sealed container in a cool, dry, well ventilated place.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly with soap and water after handling.
Light sensitive.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Ventilation: **Local Exhaust:** Required in handling area
Mechanical: Desirable to insure concentration of material below TLV/TWA levels
Other: Closed Ventilation system (Laboratory Fume Hood)

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)
Impervious Clothing

Respiratory Protection

NIOSH approved chemical cartridge respirator for dust/mist/fume/radionuclide or self-contained breathing apparatus with full face shield.

Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

9. Physical And Chemical Properties

Appearance

Colorless to white crystals or crystalline powder.

MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

9. Physical And Chemical Properties - Continued

Odor

No Data Available

Chemical Type: Mixture

Physical State: Solid

Melting Point: 1206 °F 652 °C

Boiling Point: 1985 °F 1085 °C

Specific Gravity: 5.45 @ 29 degree C

Molecular Weight: 311.8 g/mol

Vapor Density: 5.450 g/cm3

pH Factor: N/A

Solubility: Partly soluble

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Exposure to light.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Sulfur oxides, silver/silver oxides.

11. Toxicological Information

To the best of our knowledge, the chemical, the physical, and toxicological properties of this compound have not been thoroughly investigated.

12. Ecological Information

Acute Toxicity - Fish And Invertebrates

EC50: Daphnia- 0.004 mg/l- 48h

Environmental Fate Information

Very Toxic to Aquatic Life

13. Disposal Considerations

Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

14. Transport Information

Proper Shipping Name

Environmentally Hazardous Substance , Solid, N.O.S. (Disilver (1+) Sulfate)

Hazard Class

9

DOT Identification Number

3077

MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

14. Transport Information - Continued

DOT Shipping Label

Environmentally Hazardous Substance , Solid, N.O.S. (Disilver (1+) Sulfate)

Packaging Requirements

Packaging Group III

Additional Shipping Paper Description

IATA: Class 3077; Class 9; Group III - Environmentally Hazardous Substance, Solid, N.O.S.

Always consult IATA manual before shipping.

15. Regulatory Information

U.S. Regulatory Information

This product is TSCA listed.

SARA Hazard Classes

Acute Health Hazard

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

SARA Section 313 Notification

Disilver (1+) sulphate CAS-No.: 10294-26-5

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European Union (EU) Regulatory Information

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 36/37/38

Risk of Statements: Irritating to eyes, respiratory system, and skin

S: 26 36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

R50 - Very toxic to aquatic organisms

Right-To-Know (Pictograms)



NFPA



HMIS

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	J

MATERIAL SAFETY DATA SHEET

Silver (I) Sulfate

16. Other Information

Precautionary Label

Irritant

Revision/Preparer Information

MSDS Preparer: Michael W. Doss - Dir Reg Affairs

MSDS Preparer Phone Number: 410-398-7200 115

This MSDS Supersedes A Previous MSDS Dated: 03/04/2009

Reference Documentation

The following were the primary references used in the creation of this MSDS:
CAMEO, ERG, On Site Chemists; CMI SOP's

Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.

Printed Using MSDS Generator™ 2000